

# PATENT ABSTRACTS OF JAPAN

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## (54) PHOTOSTIMULABLE PHOSPHOR

### (57)Abstract:

PURPOSE: To obtain a photostimulable phosphor which shows long-term after glow, is chemically stable, and has excellent long-term light resistance.

CONSTITUTION: The phosphor comprises as a base crystal a compound represented by the formula  $M1-XAl_2O_4-X$ , wherein M is at least one metal selected among calcium, strontium, and barium and  $-0.33 \leq X \leq 0.60$  (provided that X is not 0). According to need, magnesium can be added to M. Europium can be added as an activator. A coactivator can also be added.

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**GB1190520**

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1,190,520. Luminescent materials. PHILIPS ELECTRONIC & ASSOCIATED INDUSTRIES Ltd. 19 Nov 1968 [22 Nov., 1967], No. 54876/68. Heading C4S. An alkaline earth aluminate phosphor activated by divalent Eu is defined by the formula  $Ba_x Sr_y Ca_z Eu_p - Al_{12} O_{19}$ , wherein  $x+y+z+p=1$ . and  $0 \leq p \leq 1$ , preferably  $0 \leq p \leq 1$  and  $x \leq 0.7$ . A specific phosphor disclosed is  $Ba_{(1-p)} Eu_p Al_{12} O_{19}$ . In preparation, the mix is heated at 1100 to 1250 C. for 2 hours, cooled, ground, reheated at 1300 to 1500 C. for 2 hrs. in a  $N_2 - H_2$  atmosphere. The phosphor, with emissions of from 380 to 440 nm. wavelength, may be used in HP and LPMV lamps for photo-chemical document copying processes, a reflecting layer of titanium dioxide in the anathese rather than rutile modification being included between the phosphor and its support. Intensities at high temperatures (e.g. 250 C.) are considered.

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